BRUHAT BANGALORE MAHANAGAR PALIKE

Project Division, Yelahanka Zone

SCHEDULE - B

Improvements to roads and drains at Jakkur and Srirampura Surrounding area in Ward No.05 (Jakkur)

SNo	Quantity	Item Name	Unit	Approved Rates of Sri.Gnanendra Murthy M D	
				In figures	In words
1	425.11	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods omplete as per specifications and directions of the Engineer in charge. 5km lead= 57+2.0x1.28x5 =69.80	Cum	217.92	Rupees Two Hundred Seventeen And Paise Ninety Two Only
2	171.61	Removing and refixing stone slabs of drains and pointing in CM (1:3) Complete as per specifications and directions of the Engineer in charge.	Sqm	116.83	Rupees One Hundred Sixteen And Paise Eighty Three Only
3	245.16	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing ete., Complete as per specifications and directions of the Engineer in charge.	Sqm	778.88	Rupees Seven Hundred Seventy Eight And Paise Eighty Eight Only
4	41.58	Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering omplete as per specifications and directions of the Engineer in charge.	Cum	5691.37	Rupees Five Thousand Six Hundred Ninety One And Paise Thirty Seven Only
5	93.87	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM Complete as per specifications and directions of the Engineer in charge.	Cum	7421.59	Rupees Seven Thousand Four Hundred Twenty One And Paise Fifty Nine Only
6	5.75	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery omplete as per specifications and directions of the Engineer in charge.	tonne	68279.73	Rupees Sixty Eight Thousand Two Hundred Seventy Nine And Paise Seventy Three Only
7	608.40	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,omplete as per specifications and directions of the Engineer in charge.(Data Rate)	Sqm	2453.15	Rupees Two Thousand Four Hundred Fifty Three And Paise Fifteen Only

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8	9.00	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,omplete as per specifications and directions of the Engineer in charge.	Sqm	5687.27	Rupees Five Thousand Six Hundred Eighty Seven And Paise Twenty Seven Only
9	31.78	Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing Complete as per specifications and directions of the Engineer in charge.	Sqm	6032.96	Rupees Six Thousand Thirty Two And Paise Ninety Six Only
10	509.20	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., solid concrete blocks of size 400x150x200mm, Complete as per specifications and directions of the Engineer in charge.	Sqm	1028.12	Rupees One Thousand Twenty Eight And Paise Twelve Only
11	3409.70	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries Complete as per specifications and directions of the Engineer in charge.	Sqm	43.39	Rupees Forty Three And Paise Thirty Nine Only
12	3409.70	Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM Complete as per specifications and directions of the Engineer in charge.	Sqm	6.68	Rupees Six And Paise Sixty Eight Only
13	119.88	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density,Complete as per specifications and directions of the Engineer in charge.	Cum	2094.07	Rupees Two Thousand Ninety Four And Paise Seven Only
14	784.23	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density Complete as per specifications and directions of the Engineer in charge.	Cum	2100.74	Rupees Two Thousand One Hundred And Paise Seventy Four Only

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15	3409.70	Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries Complete as per specifications and directions of the Engineer in charge.	Sqm	23.37	Rupees Twenty Three And Paise Thirty Seven Only
16	3525.20	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means Complete as per specifications and directions of the Engineer in charge.	Sqm	31.16	Rupees Thirty One And Paise Sixteen Only
17	176.26	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen,Complete as per specifications and directions of the Engineer in charge.	Cum	6726.16	Rupees Six Thousand Seven Hundred Twenty Six And Paise Sixteen Only
18	4179.70	Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries Complete as per specifications and directions of the Engineer in charge.	Sqm	5.56	Rupees Five And Paise Fifty Six Only
19	4179.70	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM Complete as per specifications and directions of the Engineer in charge.	Sqm	13.35	Rupees Thirteen And Paise Thirty Five Only
20	167.19	Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive). Complete as per specifications and directions of the Engineer in charge.	Cum	7912.28	Rupees Seven Thousand Nine Hundred Twelve And Paise Twenty Eight Only

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21	119.50	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes Complete as per specifications and directions of the Engineer in charge.	Sqm	477.34	Rupees Four Hundred Seventy Seven And Paise Thirty Four Only
22		GST @ 12%			

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